

02-03.ST25.txt
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<151> 2002-06-28
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Ile Lys Leu Ser Cys Ala Tyr Ser Gly Phe
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Pro Ile Lys Leu Thr Cys Ala Tyr Ser
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Ser

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Ser Ser Pro

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Asn Pro Ile Lys Leu Thr Cys Ala Tyr
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Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val
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Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser
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Glu Glu Gly

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Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met
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Thr Arg Glu Asp Thr Gly Tyr Thr Cys Met
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Glu Asp Thr Gly Thr Tyr Thr Cys Met Val
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Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser
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Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser Glu
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Glu Asp Thr Gly Thr Tyr Thr Cys Glu
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Arg Glu Asp Thr Gly Thr Tyr Thr Cys Glu Val
1 5 10

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1 5 10

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Glu

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Glu Glu Gly

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Arg Glu Asp Thr Gly Thr Tyr Thr Cys Glu
 1 5 10

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Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Glu
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Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Glu
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Glu Asp Thr Gly Thr Tyr Thr Cys Glu Val
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Glu Asp Thr Gly Thr Tyr Thr Cys Glu Val Ser
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Glu Asp Thr Gly Thr Tyr Thr Cys Glu Val Ser Glu
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Glu Asp Thr Gly Thr Tyr Thr Cys Glu Val Ser Glu Glu
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Glu Asp Thr Gly Thr Tyr Arg Cys Met
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Arg Glu Asp Thr Gly Thr Tyr Arg Cys Met Val
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Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Met Val Ser
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Val Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Met Val Ser Glu
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Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Met Val Ser Glu
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Glu

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Glu Glu Gly

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Arg Glu Asp Thr Gly Thr Tyr Arg Cys Met
 1 5 10

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Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Met
 1 5 10

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Val Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Met
 1 5 10

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Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Met
 1 5 10

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Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Met
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Glu Asp Thr Gly Thr Tyr Arg Cys Met Val
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Glu Asp Thr Gly Thr Tyr Arg Cys Met Val Ser
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Glu Asp Thr Gly Thr Tyr Arg Cys Glu
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Arg Glu Asp Thr Gly Thr Tyr Arg Cys Glu Val
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Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Glu Val Ser
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Val Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Glu Val Ser Glu
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Glu

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Glu Glu Gly

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Arg Glu Asp Thr Gly Thr Tyr Arg Cys Glu
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Thr Arg Glu Asp Thr Gly Thr Tyr Arg Cys Glu
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Thr Arg Glu Asp Ser Gly Thr Tyr Thr Cys Met Val Ser
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Glu Glu Gly

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Arg Glu Asp Ser Gly Thr Tyr Thr Cys Met
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Thr Arg Glu Asp Ser Gly Thr Tyr Thr Cys Met
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Val Thr Arg Glu Asp Ser Gly Thr Tyr Thr Cys Met
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Ser Val Thr Arg Glu Asp Ser Gly Thr Tyr Thr Cys Met
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Lys Ser Val Thr Arg Glu Asp Ser Gly Thr Tyr Thr Cys Met
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Glu Asp Ser Gly Thr Tyr Thr Cys Met Val
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Glu Asp Ser Gly Thr Tyr Thr Cys Met Val Ser
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Glu Asp Ser Gly Thr Tyr Thr Cys Met Val Ser Glu
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Glu Asp Ser Gly Thr Tyr Thr Cys Glu
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Arg Glu Asp Ser Gly Thr Tyr Thr Cys Glu Val
 1 5 10

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Thr Arg Glu Asp Ser Gly Thr Tyr Thr Cys Glu Val Ser
 1 5 10

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Val Thr Arg Glu Asp Ser Gly Thr Tyr Thr Cys Glu Val Ser Glu
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Glu

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Glu Glu Gly

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Arg Glu Asp Ser Gly Thr Tyr Thr Cys Glu

1 5

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Thr Arg Glu Asp Ser Gly Thr Tyr Thr Cys Glu
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Met Glu Val Tyr Asp Leu Asn
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Gly Phe Ser Ala Pro Lys Asp Gln Gln Val
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Leu Ala Cys Lys Thr Pro Lys Lys Thr Val
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Ser Ser Arg Leu Glu Trp Lys Lys Leu Gly
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Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln
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Gly Phe Ser Ala Pro
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Pro Lys Lys Thr Val Ser Ser Arg Leu Glu
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Trp Lys Lys Leu Gly Arg Ser Val Ser Phe
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Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly
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Thr Val Ser Lys Leu Asp Thr Gly Glu Tyr
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Gln Val Val Thr Ala Val Glu Tyr
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Gln Glu Ala Ile Leu Ala Cys Lys
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Thr Pro Lys Lys Thr Val Ser Ser
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Arg Ser Val Ser Phe Val Tyr Tyr
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Gln Gln Thr Leu Gln Gly Asp Phe
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Thr Arg Ser Asp Ala Gly Lys Tyr
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Arg Cys Glu Val Ser Ala Pro Ser
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Val Ala Pro Ala Val Pro Ser Cys
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Glu Val Pro Ser Ser Ala Leu Ser
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Gly Thr Val Val Glu Leu Arg Cys
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Gln Asp Lys Glu Gly Asn Pro Ala
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Pro Glu Tyr Thr Trp Phe Lys Asp
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Ser Ser Tyr Thr Met Asn Thr Lys
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Thr Gly Thr Leu Gln Phe Asn Thr
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Val Ser Lys Leu Asp Thr Gly Glu
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Tyr Ser Cys Glu Ala Arg Asn Ser
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Gly Phe Ser Ala
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Leu Ala Cys Lys Thr Pro Lys Lys
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Lys Lys Leu Gly Arg Ser Val Ser
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Ala Gly Lys Tyr Arg Cys Glu Val
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Ser Ala Pro Ser Glu Gln Gly Gln
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Asn Leu Glu Glu Asp Thr Val Thr
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Leu Glu Val Leu Val Ala Pro Ala
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Ser Ala Leu Ser Gly Thr Val Val
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Glu Leu Arg Cys Gln Asp Lys Glu
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Gly Asn Pro Ala Pro Glu Tyr Thr
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Leu Glu Asn Pro Arg Leu Gly Ser
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Gln Ser Thr Asn Ser Ser Tyr Thr
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Met Asn Thr Lys Thr Gly Thr Leu
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Asp Thr Gly Glu Tyr Ser Cys Glu
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Ala Arg Asn Ser Val Gly Tyr Arg
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Arg Cys Pro Gly Lys Arg Met Gln
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Val Asp Asp Leu Asn
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Arg Ile Tyr Ser Tyr
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Ala Gly Asp Asn Ile Val Thr Ala Gln Ala
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Met Tyr Glu Gly Leu Trp Met Ser Cys Val
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Ser Gln Ser Thr Gly Gln Ile Gln Cys Lys
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Pro Val Asn Ala Arg Tyr Glu
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Val Thr Ala Val Gly Phe Ser Lys Gly Leu
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Trp Met Glu Cys Ala Thr His Ser Thr Gly
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Ile Thr Gln Cys Asp Ile Tyr Ser Thr Leu
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Lys Thr Ser Ser Tyr
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Phe Ser Lys Gly Leu Trp Met Glu Cys Ala
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 868

Ile Gly Ser Asn Ile Ile Thr Ser Gln Asn
 1 5 10

<210> 869
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 869

Val Pro Val Ser Gln Lys Tyr Glu Leu Gly
 1 5 10

<210> 870
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 870

Asn Ile Trp Glu Gly Leu Trp Met Asn Cys
 1 5 10

<210> 871
 <211> 10
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 <213> Artificial Sequence

<220>
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<400> 871

Phe Ile Gly Ser Asn Ile Val Thr Ser Gln
 1 5 10

<210> 872
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 872

Val Val Gln Ser Thr Gly Gln Met Gln Cys
 1 5 10

<210> 873
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 873

Phe Ile Gly Ser Asn Ile Ile Thr Ser Gln
 1 5 10

<210> 874
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 874

Ala Met Tyr Glu Gly Leu Trp Met Ser Cys
 1 5 10

<210> 875
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 875

Gly Gly Ser Val Gly Tyr Pro Tyr Gly
 1 5

<210> 876
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 876

Thr Ile Trp Glu Gly Leu Trp Met Asn Cys
 1 5 10

<210> 877
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 877

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro
 1 5 10

<210> 878
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 878

Gly	Phe	Ser	Leu	Gly	Leu	Trp	Met	Glu	Cys
1				5					10

<210> 879

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 879

Lys	Val	Tyr	Asp	Ser	Val	Leu	Ala	Leu	Ser
1				5					10

<210> 880

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 880

Ala	Thr	His	Ser	Thr	Gly	Ile	Thr	Gln	Cys
1				5					10

<210> 881

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 881

Thr	Thr	Trp	Leu	Gly	Leu	Trp	Met	Ser	Cys
1				5					10

<210> 882

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 882

Val	Leu	Pro	Pro	Ser
1				5

<210> 883
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 883

Tyr Glu Asp Arg Val Thr Phe
 1 5

<210> 884
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 884

Pro Arg Val Glu Trp
 1 5

<210> 885
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 885

Gly Phe Ser Lys Gly Leu Trp Met Glu Cys
 1 5 10

<210> 886
 <211> 10
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 <213> Artificial Sequence

<220>
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<400> 886

Thr Thr Trp Lys Gly Leu Trp Met Ser Cys
 1 5 10

<210> 887
 <211> 299
 <212> PRT
 <213> Artificial Sequence

<220>

<223> synthetic construct

<400> 887

Met Gly Thr Lys Ala Gln Val Glu Arg Lys Leu Leu Cys Leu Phe Ile
 1 5 10 15

Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His
 20 25 30

Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu
 35 40 45

Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe
 50 55 60

Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr
 65 70 75 80

Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe
 85 90 95

Lys Ser Val Thr Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser
 100 105 110

Glu Glu Gly Gly Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val
 115 120 125

Leu Val Pro Pro Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr
 130 135 140

Ile Gly Asn Arg Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro
 145 150 155 160

Pro Ser Glu Tyr Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn
 165 170 175

Pro Lys Ser Thr Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro
 180 185 190

Thr Thr Gly Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly
 195 200 205

Glu Tyr Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser
 210 215 220

Asn Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
 225 230 235 240

Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly
245 250 255

Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly
260 265 270

Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala Arg Ser Glu
275 280 285

Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
290 295

<210> 888

<211> 310

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 888

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
1 5 10 15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
130 135 140

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Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
290 295 300

Lys Ser Ser Phe Val Ile
305 310

<210> 889
<211> 298
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 889

Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr
1 5 10 15

Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
20 25 30

Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu Ala Ile Leu
 35 40 45
 Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg Leu Glu Trp Lys
 50 55 60
 Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
 65 70 75 80
 Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
 85 90 95
 Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser
 100 105 110
 Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
 115 120 125
 Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser
 130 135 140
 Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly
 145 150 155 160
 Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu
 165 170 175
 Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met
 180 185 190
 Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp
 195 200 205
 Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg
 210 215 220
 Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile
 225 230 235 240
 Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu
 245 250 255
 Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser
 260 265 270
 Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn
 275 280 285

Asp Phe Lys His Thr Lys Ser Phe Ile Ile
 290 295

<210> 890
 <211> 211
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 890

Met Ala Asn Ala Gly Leu Gln Leu Leu Gly Phe Ile Leu Ala Phe Leu
 1 5 10 15

Gly Trp Ile Gly Ala Ile Val Ser Thr Ala Leu Pro Gln Trp Arg Ile
 20 25 30

Tyr Ser Tyr Ala Gly Asp Asn Ile Val Thr Ala Gln Ala Met Tyr Glu
 35 40 45

Gly Leu Trp Met Ser Cys Val Ser Gln Ser Thr Gly Gln Ile Gln Cys
 50 55 60

Lys Val Phe Asp Ser Leu Leu Asn Leu Ser Ser Thr Leu Gln Ala Thr
 65 70 75 80

Arg Ala Leu Met Val Val Gly Ile Leu Leu Gly Val Ile Ala Ile Phe
 85 90 95

Val Ala Thr Val Gly Met Lys Cys Met Lys Cys Leu Glu Asp Asp Glu
 100 105 110

Val Gln Lys Met Arg Met Ala Val Ile Gly Gly Ala Ile Phe Leu Leu
 115 120 125

Ala Gly Leu Ala Ile Leu Val Ala Thr Ala Trp Tyr Gly Asn Arg Ile
 130 135 140

Val Gln Glu Phe Tyr Asp Pro Met Thr Pro Val Asn Ala Arg Tyr Glu
 145 150 155 160

Phe Gly Gln Ala Leu Phe Thr Gly Trp Ala Ala Ala Ser Leu Cys Leu
 165 170 175

Leu Gly Gly Ala Leu Leu Cys Cys Ser Cys Pro Arg Lys Thr Thr Ser
 180 185 190

Tyr Pro Thr Pro Arg Pro Tyr Pro Lys Pro Ala Pro Ser Ser Gly Lys
 195 200 205

Asp Tyr Val
 210

<210> 891
 <211> 229
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic construct

<400> 891

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu
 1 5 10 15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
 20 25 30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
 35 40 45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
 50 55 60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
 65 70 75 80

Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
 85 90 95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg
 100 105 110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly
 115 120 125

Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu
 130 135 140

Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
 145 150 155 160

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
 165 170 175

Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser
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Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser
 195 200 205

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
 210 215 220

Ser Leu Thr Gly Tyr
 225

<210> 892
 <211> 220
 <212> PRT
 <213> Artificial sequence

<220>
 <223> synthetic construct

<400> 892

Met Ser Met Gly Leu Glu Ile Thr Gly Thr Ala Leu Ala Val Leu Gly
 1 5 10 15

Trp Leu Gly Thr Ile Val Cys Cys Ala Leu Pro Met Trp Arg Val Ser
 20 25 30

Ala Phe Ile Gly Ser Asn Ile Ile Thr Ser Gln Asn Ile Trp Glu Gly
 35 40 45

Leu Trp Met Asn Cys Val Val Gln Ser Thr Gly Gln Met Gln Cys Lys
 50 55 60

Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala Arg
 65 70 75 80

Ala Leu Ile Val Val Ala Ile Leu Leu Ala Ala Phe Gly Leu Leu Val
 85 90 95

Ala Leu Val Gly Ala Gln Cys Thr Asn Cys Val Gln Asp Asp Thr Ala
 100 105 110

Lys Ala Lys Ile Thr Ile Val Ala Gly Val Leu Phe Leu Leu Ala Ala
 115 120 125

Leu Leu Thr Leu Val Pro Val Ser Trp Ser Ala Asn Thr Ile Ile Arg
 130 135 140

Asp Phe Tyr Asn Pro Val Val Pro Glu Ala Gln Lys Arg Glu Met Gly
 145 150 155 160

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Ala Gly Leu Tyr Val Gly Trp Ala Ala Ala Ala Leu Gln Leu Leu Gly
165 170 175

Gly Ala Leu Leu Cys Cys Ser Cys Pro Pro Arg Glu Lys Lys Tyr Thr
180 185 190

Ala Thr Lys Val Val Tyr Ser Ala Pro Arg Ser Thr Gly Pro Gly Ala
195 200 205

Ser Leu Gly Thr Gly Tyr Asp Arg Lys Asp Tyr Val
210 215 220

<210> 893
<211> 209
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic construct

<400> 893

Met Ala Ser Met Gly Leu Gln Val Met Gly Ile Ala Leu Ala Val Leu
1 5 10 15

Gly Trp Leu Ala Val Met Leu Cys Cys Ala Leu Pro Met Trp Arg Val
20 25 30

Thr Ala Phe Ile Gly Ser Asn Ile Val Thr Ser Gln Thr Ile Trp Glu
35 40 45

Gly Leu Trp Met Asn Cys Val Val Gln Ser Thr Gly Gln Met Gln Cys
50 55 60

Lys Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala
65 70 75 80

Arg Ala Leu Val Ile Ile Ser Ile Ile Val Ala Ala Leu Gly Val Leu
85 90 95

Leu Ser Val Val Gly Gly Lys Cys Thr Asn Cys Leu Glu Asp Glu Ser
100 105 110

Ala Lys Ala Lys Thr Met Ile Val Ala Gly Val Val Phe Leu Leu Ala
115 120 125

Gly Leu Met Val Ile Val Pro Val Ser Trp Thr Ala His Asn Ile Ile
130 135 140

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Gln Asp Phe Tyr Asn Pro Leu Val Ala Ser Gly Gln Lys Arg Glu Met
145 150 155 160

Gly Ala Ser Leu Tyr Val Gly Trp Ala Ala Ser Gly Leu Leu Leu Leu
165 170 175

Gly Gly Gly Leu Leu Cys Cys Asn Cys Pro Pro Arg Thr Asp Lys Pro
180 185 190

Tyr Ser Ala Lys Tyr Ser Ala Ala Arg Ser Ala Ala Ala Ser Asn Tyr
195 200 205

val

<210> 894
<211> 218
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 894

Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val
1 5 10 15

Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
20 25 30

Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys
35 40 45

Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly His Met Gln Cys
50 55 60

Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr Glu Val Gln Ala Ala
65 70 75 80

Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala Phe Val Ala Leu Phe
85 90 95

Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys Val Ala Pro Gly Pro
100 105 110

Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val Leu Tyr Leu Phe Cys
115 120 125

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Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe Ala Asn Ile Val Val
130 135 140

Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser Gln Lys Tyr Glu Leu
145 150 155 160

Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr Ala Leu Leu Met Val
165 170 175

Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val Cys Thr Gly Arg Pro
180 185 190

Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro Arg Arg Pro Thr Ala
195 200 205

Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val
210 215

<210> 895
<211> 220
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 895

Met Ala Ser Ala Gly Met Gln Ile Leu Gly Val Val Leu Thr Leu Leu
1 5 10 15

Gly Trp Val Asn Gly Leu Val Ser Cys Ala Leu Pro Met Trp Lys Val
20 25 30

Thr Ala Phe Ile Gly Asn Ser Ile Val Val Ala Gln Val Val Trp Glu
35 40 45

Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly Gln Met Gln Cys
50 55 60

Lys Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala
65 70 75 80

Arg Ala Leu Cys Val Ile Ala Leu Leu Val Ala Leu Phe Gly Leu Leu
85 90 95

Val Tyr Leu Ala Gly Ala Lys Cys Thr Thr Cys Val Glu Glu Lys Asp
100 105 110

Ser Lys Ala Arg Leu Val Leu Thr Ser Gly Ile Val Phe Val Ile Ser
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Gly Val Leu Thr Leu Ile Pro Val Cys Trp Thr Ala His Ala Val Ile
130 135 140

Arg Asp Phe Tyr Asn Pro Leu Val Ala Glu Ala Gln Lys Arg Glu Leu
145 150 155 160

Gly Ala Ser Leu Tyr Leu Gly Trp Ala Ala Ser Gly Leu Leu Leu Leu
165 170 175

Gly Gly Gly Leu Leu Cys Cys Thr Cys Pro Ser Gly Gly Ser Gln Gly
180 185 190

Pro Ser His Tyr Met Ala Arg Tyr Ser Thr Ser Ala Pro Ala Ile Ser
195 200 205

Arg Gly Pro Ser Glu Tyr Pro Thr Lys Asn Tyr Val
210 215 220

<210> 896
<211> 211
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 896

Met Ala Asn Ser Gly Leu Gln Leu Leu Gly Phe Ser Met Ala Leu Leu
1 5 10 15

Gly Trp Val Gly Leu Val Ala Cys Thr Ala Ile Pro Gln Trp Gln Met
20 25 30

Ser Ser Tyr Ala Gly Asp Asn Ile Ile Thr Ala Gln Ala Met Tyr Lys
35 40 45

Gly Leu Trp Met Asp Cys Val Thr Gln Ser Thr Gly Met Met Ser Cys
50 55 60

Lys Met Tyr Asp Ser Val Leu Ala Leu Ser Ala Ala Leu Gln Ala Thr
65 70 75 80

Arg Ala Leu Met Val Val Ser Leu Val Leu Gly Phe Leu Ala Met Phe
85 90 95

Val Ala Thr Met Gly Met Lys Cys Thr Arg Cys Gly Gly Asp Asp Lys
100 105 110

Val Lys Lys Ala Arg Ile Ala Met Gly Gly Gly Ile Ile Phe Ile Val
 115 120 125

Ala Gly Leu Ala Ala Leu Val Ala Cys Ser Trp Tyr Gly His Gln Ile
 130 135 140

Val Thr Asp Phe Tyr Asn Pro Leu Ile Pro Thr Asn Ile Lys Tyr Glu
 145 150 155 160

Phe Gly Pro Ala Ile Phe Ile Gly Trp Ala Gly Ser Ala Leu Val Ile
 165 170 175

Leu Gly Gly Ala Leu Leu Ser Cys Ser Cys Pro Gly Asn Glu Ser Lys
 180 185 190

Ala Gly Tyr Arg Ala Pro Arg Ser Tyr Pro Lys Ser Asn Ser Ser Lys
 195 200 205

Glu Tyr Val
 210

<210> 897
 <211> 225
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic construct

<400> 897

Met Ala Thr His Ala Leu Glu Ile Ala Gly Leu Phe Leu Gly Gly Val
 1 5 10 15

Gly Met Val Gly Thr Val Ala Val Thr Val Met Pro Gln Trp Arg Val
 20 25 30

Ser Ala Phe Ile Glu Asn Asn Ile Val Val Phe Glu Asn Phe Trp Glu
 35 40 45

Gly Leu Trp Met Asn Cys Val Arg Gln Ala Asn Ile Arg Met Gln Cys
 50 55 60

Lys Ile Tyr Asp Ser Leu Leu Ala Leu Ser Pro Asp Leu Gln Ala Ala
 65 70 75 80

Arg Gly Leu Met Cys Ala Ala Ser Val Met Ser Phe Leu Ala Phe Met
 85 90 95

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Met Ala Ile Leu Gly Met Lys Cys Thr Arg Cys Thr Gly Asp Asn Glu
100 105 110

Lys Val Lys Ala His Ile Leu Leu Thr Ala Gly Ile Ile Phe Ile Ile
115 120 125

Thr Gly Met Val Val Leu Ile Pro Val Ser Trp Val Ala Asn Ala Ile
130 135 140

Ile Arg Asp Phe Tyr Asn Ser Ile Val Asn Val Ala Gln Lys Arg Glu
145 150 155 160

Leu Gly Glu Ala Leu Tyr Leu Gly Trp Thr Thr Ala Leu Val Leu Ile
165 170 175

Val Gly Gly Ala Leu Phe Cys Cys Val Phe Cys Cys Asn Glu Lys Ser
180 185 190

Ser Ser Tyr Arg Tyr Ser Ile Pro Ser His Arg Thr Thr Gln Lys Ser
195 200 205

Tyr His Thr Gly Lys Lys Ser Pro Ser Val Tyr Ser Arg Ser Gln Tyr
210 215 220

Val
225

<210> 898
<211> 217
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 898

Met Ala Ser Thr Gly Leu Glu Leu Leu Gly Met Thr Leu Ala Val Leu
1 5 10 15

Gly Trp Leu Gly Thr Leu Val Ser Cys Ala Leu Pro Leu Trp Lys Val
20 25 30

Thr Ala Phe Ile Gly Asn Ser Ile Val Val Ala Gln Val Val Trp Glu
35 40 45

Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly Gln Met Gln Cys
50 55 60

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Lys Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala
65 70 75 80

Arg Ala Leu Cys Val Ile Ala Leu Leu Leu Ala Leu Leu Gly Leu Leu
85 90 95

Val Ala Ile Thr Gly Ala Gln Cys Thr Thr Cys Val Glu Asp Glu Gly
100 105 110

Ala Lys Ala Arg Ile Val Leu Thr Ala Gly Val Ile Leu Leu Leu Ala
115 120 125

Gly Ile Leu Val Leu Ile Pro Val Cys Trp Thr Ala His Ala Ile Ile
130 135 140

Gln Asp Phe Tyr Asn Pro Leu Val Ala Glu Ala Leu Lys Arg Glu Leu
145 150 155 160

Gly Ala Ser Leu Tyr Leu Gly Trp Ala Ala Ala Ala Leu Leu Met Leu
165 170 175

Gly Gly Gly Leu Leu Cys Cys Thr Cys Pro Pro Pro Gln Val Glu Arg
180 185 190

Pro Arg Gly Pro Arg Leu Gly Tyr Ser Ile Pro Ser Arg Ser Gly Ala
195 200 205

Ser Gly Leu Asp Lys Arg Asp Tyr Val
210 215

<210> 899
<211> 228
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 899

Met Ala Ser Thr Ala Ser Glu Ile Ile Ala Phe Met Val Ser Ile Ser
1 5 10 15

Gly Trp Val Leu Val Ser Ser Thr Leu Pro Thr Asp Tyr Trp Lys Val
20 25 30

Ser Thr Ile Asp Gly Thr Val Ile Thr Thr Ala Thr Tyr Trp Ala Asn
35 40 45

Leu Trp Lys Ala Cys Val Thr Asp Ser Thr Gly Val Ser Asn Cys Lys
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Asp Phe Pro Ser Met Leu Ala Leu Asp Gly Tyr Ile Gln Ala Cys Arg
65 70 75 80

Gly Leu Met Ile Ala Ala Val Ser Leu Gly Phe Phe Gly Ser Ile Phe
85 90 95

Ala Leu Phe Gly Met Lys Cys Thr Lys Val Gly Gly Ser Asp Lys Ala
100 105 110

Lys Ala Lys Ile Ala Cys Leu Ala Gly Ile Val Phe Ile Leu Ser Gly
115 120 125

Leu Cys Ser Met Thr Gly Cys Ser Leu Tyr Ala Asn Lys Ile Thr Thr
130 135 140

Glu Phe Phe Asp Pro Leu Phe Val Glu Gln Lys Tyr Glu Leu Gly Ala
145 150 155 160

Ala Leu Phe Ile Gly Trp Ala Gly Ala Ser Leu Cys Ile Ile Gly Gly
165 170 175

Val Ile Phe Cys Phe Ser Ile Ser Asp Asn Asn Lys Thr Pro Arg Tyr
180 185 190

Thr Tyr Asn Gly Ala Thr Ser Val Met Ser Ser Arg Thr Lys Tyr His
195 200 205

Gly Gly Glu Asp Phe Lys Thr Thr Asn Pro Ser Lys Gln Phe Asp Lys
210 215 220

Asn Ala Tyr Val
225

<210> 900
<211> 522
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic construct

<400> 900

Met Ser Ser Arg Pro Leu Glu Ser Pro Pro Pro Tyr Arg Pro Asp Glu
1 5 10 15

Phe Lys Pro Asn His Tyr Ala Pro Ser Asn Asp Ile Tyr Gly Gly Glu
20 25 30

Met His Val Arg Pro Met Leu Ser Gln Pro Ala Tyr Ser Phe Tyr Pro
 35 40 45
 Glu Asp Glu Ile Leu His Phe Tyr Lys Trp Thr Ser Pro Pro Gly Val
 50 55 60
 Ile Arg Ile Leu Ser Met Leu Ile Ile Val Met Cys Ile Ala Ile Phe
 65 70 75 80
 Ala Cys Val Ala Ser Thr Leu Ala Trp Asp Arg Gly Tyr Gly Thr Ser
 85 90 95
 Leu Leu Gly Gly Ser Val Gly Tyr Pro Tyr Gly Gly Ser Gly Phe Gly
 100 105 110
 Ser Tyr Gly Ser Gly Tyr Gly Tyr Gly Tyr Gly Tyr Gly Tyr
 115 120 125
 Gly Gly Tyr Thr Asp Pro Arg Ala Ala Lys Gly Phe Met Leu Ala Met
 130 135 140
 Ala Ala Phe Cys Phe Ile Ala Ala Leu Val Ile Phe Val Thr Ser Val
 145 150 155 160
 Ile Arg Ser Glu Met Ser Arg Thr Arg Arg Tyr Tyr Leu Ser Val Ile
 165 170 175
 Ile Val Ser Ala Ile Leu Gly Ile Met Val Phe Ile Ala Thr Ile Val
 180 185 190
 Tyr Ile Met Gly Val Asn Pro Thr Ala Gln Ser Ser Gly Ser Leu Tyr
 195 200 205
 Gly Ser Gln Ile Tyr Ala Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala
 210 215 220
 Thr Gly Leu Tyr Val Asp Gln Tyr Leu Tyr His Tyr Cys Val Val Asp
 225 230 235 240
 Pro Gln Glu Ala Ile Ala Ile Val Leu Gly Phe Met Ile Ile Val Ala
 245 250 255
 Phe Ala Leu Ile Ile Phe Phe Ala Val Lys Thr Arg Arg Lys Met Asp
 260 265 270
 Arg Tyr Asp Lys Ser Asn Ile Leu Trp Asp Lys Glu His Ile Tyr Asp
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Glu Gln Pro Pro Asn Val Glu Glu Trp Val Lys Asn Val Ser Ala Gly
 290 295 300
 Thr Gln Asp Val Pro Ser Pro Pro Ser Asp Tyr Val Glu Arg Val Asp
 305 310 315 320
 Ser Pro Met Ala Tyr Ser Ser Asn Gly Lys Val Asn Asp Lys Arg Phe
 325 330 335
 Tyr Pro Glu Ser Ser Tyr Lys Ser Thr Pro Val Pro Glu Val Val Gln
 340 345 350
 Glu Leu Pro Leu Thr Ser Pro Val Asp Asp Phe Arg Gln Pro Arg Tyr
 355 360 365
 Ser Ser Gly Gly Asn Phe Glu Thr Pro Ser Lys Arg Ala Pro Ala Lys
 370 375 380
 Gly Arg Ala Gly Arg Ser Lys Arg Thr Glu Gln Asp His Tyr Glu Thr
 385 390 395 400
 Asp Tyr Thr Thr Gly Gly Glu Ser Cys Asp Glu Leu Glu Glu Asp Trp
 405 410 415
 Ile Arg Glu Tyr Pro Pro Ile Thr Ser Asp Gln Gln Arg Gln Leu Tyr
 420 425 430
 Lys Arg Asn Phe Asp Thr Gly Leu Gln Glu Tyr Lys Ser Leu Gln Ser
 435 440 445
 Glu Leu Asp Glu Ile Asn Lys Glu Leu Ser Arg Leu Asp Lys Glu Leu
 450 455 460
 Asp Asp Tyr Arg Glu Glu Ser Glu Glu Tyr Met Ala Ala Ala Asp Glu
 465 470 475 480
 Tyr Asn Arg Leu Lys Gln Val Lys Gly Ser Ala Asp Tyr Lys Ser Lys
 485 490 495
 Lys Asn His Cys Lys Gln Leu Lys Ser Lys Leu Ser His Ile Lys Lys
 500 505 510
 Met Val Gly Asp Tyr Asp Arg Gln Lys Thr
 515 520